Intermediate rate applications of punctured convolutional codes for 8PSK trellis modulation over satellite channels

Publication number: TW435009 (B)

Publication date: 2001-05-16

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Classification:

- **international:** *H04L27/18; H03M13/00; H03M13/23; H03M13/25;* H04L1/00; H04L27/18; H03M13/00; H04L1/00; (IPC1-7): H03M13/02

- **European:** H04L1/00B7R1P; H03M13/00H; H03M13/23; H03M13/25T

Application number: TW19980121937 19981231

Priority number(s): US19980008976 19980120

Also published as:

US5909454 (A)

CA2258351 (A1)

CA2258351 (C)

JP11289259 (A)

CN1241845 (A)

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Abstract of **TW 435009 (B)**

A method and apparatus are provided for convolutionally encoding digital data with a rate 5/8 convolutional code. A standard rate1/2 convolutional code is punctured to rate 5/8 using a puncture map of {11111, 11100} and octal generators 133, 171 wherein the constraint length K=7. An incoming data stream is processed using the rate 5/8 code. In another embodiment, a rate 1/3 convolutional code is punctured to rate 5/8 using a puncture map of {00000, 11101, 11110} and octal generators 117, 135, 161 wherein the constraint length K=7.

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